

Hans J. Sauer, Hera

9

✓ Decomposition of diazo ketones by curcous oxide. III.

*Synthesis of hexaacetanilidocarbonylcurcous oxide. V. H. Sauer, Han-
s J. Sauer, Harry Smith, and Ivan Ernest (Tech. Univ., Prague, Czechoslovakia). Z. Lek. 30, 373-400 (1955); cf. C. A. 49, 13576. — A
Me. telecate (V), m. 38.5°, obtained in a 72-3% yield by
treating a soln. of 254.2 g. di-Me carbamate in 400 ml. CH_3O ,
in acetone, by shaking with 10% HCl and crystallizing CH_3O .
It was converted in a 16% yield to the acid *tauro*-II, b.
70°, by heating 151 g. I in 1 liter with 150 ml. SOCl_2 to
70° for 7 hrs. A soln. of 50 g. II in 250 ml. Et_2O was dropped
into a soln. of 216.8 g. CH_2N_2 in 2000 ml. Et_2O , the mixture
being maintained at 0°, and the resulting soln. of Me. diacetanilidocar-
bonylketone diethyl ester with CH_3O to 600 ml. and heated at
127° for 1 hr. It was then treated with 10% H_2O_2 and CuO yielding 18.4 g. d₄-Me.
*d*₄-Me. (II) gave on hydrogenation with PtO_2 (III).
*d*₄-Me. (III) was converted to *d*₄-Me. decolor-10,13-dione-1,22-furan (IV),
m. 200° (from MeOH). Treatment of 37.8 g. IV with 28
ml. HSCl in 250 ml. dioxane in the presence of 40 g.
mildly basic NaHSO₃ and 40 g. fused ZnCl_2 gave 21.2 g. IV,
m. 200° (from $\text{MeOH-C}_2\text{H}_5\text{O}$) which
was then hydrogenated by refluxing 5 hrs. with 50% H_2 in
 CH_2Cl_2 , giving *d*₄-Me. decolor-1,22-furan (V), m. 200°.
Saponification of *d*₄-Me. (V) was converted to *d*₄-Me. (VI) in 100% yield
by refluxing with a 5% soln. of NaOH in H_2O .
Sauer and Storch, C. A. 41, 6106 (1947) to the corresponding
monocyclic ester (VI), m. 82-8° (from CH_3O),
was prepared by refluxing 40.2 g. VI in 50 ml. CH_3O
for 7 hrs. which to *d*₄-Me. decolor-10,13-diene-1,22-furan
73.0° by treatment with 2.4 g. CH_3N_2 . Decolor-10,13-
furan, *d*₄-Me. decolor-10,13-diene-1,22-furan-2,25-dione-2,25-
dihydro-VIII, m. 111-12.2° (from CH_3O), which was
✓*

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HNEVSORA, V., Smely, V. ErNST.

hydrogenated at 50° with PtO_2 in C_6H_6 yielded 2.03 g. *di-Me-hexatetraenoate-2,25-dione-1,6-dioleate* (IX), m. 107.5-108° (from $MeOH-C_6H_6$). IX (1.52 g.) was converted by treatment with 2.5 ml. $(HSCH_2)_2$ and 1.5 ml. $BF_3\cdot Et_2O$ to the corresponding bis(*ethylenemercaptoate*), m. 63-7°. Desulfurization by boiling in C_6H_6-MeOH (1:1) 8 hrs. with Raney Ni W gave 833 mg. of a product m. 93-7° which on subsequent hydrogenation with PtO_2 yielded 766 mg. *di-Me-hexatetraenoate-1,6-dioleate* (X), m. 100-1.2° (from C_6H_6-MeOH). X was also obtained in 70-mg. yield from a shorter alternative synthesis including treatment of *YIII* with $HSCH_2$ and $BF_3\cdot Et_2O$, subsequent desulfurization and hydrogenation. Alk. hydrolysis of 200 mg. X by boiling with 6% methanolic KOH gave 212 mg. free acid, m. 128.5-0.5°. Similarly, treatment of *Me-Bis-acetylpyroglutamate* (Ib, 27-30% prep. from the Me-ester chloride of succinic acid and CH_3N) with CuO gave *di-Me-decaenoate-2,25-dione-1,6-dioleate*, m. 129-1.5°, in a 23.5% yield, while Me-diazomethyl valerate, $b.p.$ 103-4°, prepared from the Me ester chloride of adipic acid and CH_3N , was decarboxylated to *di-Me-tetradec-2-one-1,12-dikone*, m. 94-5°, in 29.2% yield. IV. Selective reduction of unsaturated 1,4-dilinones, Ivan Ernest, *J. Am. Chem. Soc.* 58(1936), 581-5. Desulfurization of the *tri-ethylenemercaptoate* (II) of *YII* *dimethyl-2,25-dione-1,6-dioleate* (IX) depends, evidently, considerably on the activity of the used Raney Ni. It was prepared by dissolving 4.6 g. la and 20 mg. hydrotropone in 4 ml. $(HSCH_2)_2$ and dissolving into the cooled sln. 4 ml. $BF_3\cdot Et_2O$. After 24 hrs. the melt was shaken with C_6H_6 and $10\% NaHSO_3$ and the CuO was removed. Evaporation 6.0 hr. clear viscous liquid of I. Desulfurization of I by boiling 1.21 g. in 120 ml. abs. $BuOH$ with 25 ml. suspension of Raney Ni, 10% off. Partie, *C.A.* 49, 9775, gave 2.2 g. *di-25-dodecanoate-2,25-dione (II)*, m. 125-1.5°. In the same procedure, *Air*, hydrotropone, II, gave the *acid* (III), m. 125-0°. Analogous procedure with a catalyst.

[redacted]

HALÍKSOVÁ, V., SMEJLÝ, V., ERNST, J.

that has been deactivated by boiling 2 hrs. with Me_2CO gave a fraction which was identified as a mixt. of 63% II and 41% of the corresponding unsatd. ester, probably *di-12-dodec-6-ene-1,12-dicarboxylate* (IV), characterized by coulometric analysis and by hydrogenation yielding II. When a 12-hr. inactivation was used, desulfurization of 0.5 g. I gave a 060-mg. fraction, $b_{10} = 135-15^{\circ}$, which on alk. hydrolysis yielded crystals, m. 138-7^a, probably of $\text{HOOC(CH}_2)_6\text{CH}_2\text{CH}_2\text{CHCO(}CH_2)_6\text{CO}_2\text{H}$, whereas a 6-hr. heat-activated catalyst produced a fraction, $b_{10} = 133-7^{\circ}$, apparently of I, identified by hydrogenation which gave II and after alk. hydrolysis yielded III. A parallel expt. from 4.7 g. I gave a 1.18-g. fraction, $b_{10} = 124-7^{\circ}$, which was chromatographed on Al_2O_3 yielding by alk. hydrolysis of the iligroine eluate 40 mg. cryst. *dodec-6-eno-1,12-dicarboxylic acid*, m. 107-9^a, confirmed by coulometric analysis. Attempts were made at overcoming difficulties encountered in the prpn. of unsatd. dicarboxylic acids of the type $\text{RO}_2\text{C}(\text{CH}_2)_n\text{C}(\text{CH}_2)_m\text{CHCO(CH}_2)_n\text{CO}_2\text{R}$ (V) by prep., addn. compds. of V with anthracene (VI), however, without success. The adduct of Ia and VI obtained by heating 5 hrs. powd. mixt. of 3.0 g. VI with 0.8 g. V ($n = 4$, R = Et) forms crystals, m. 78-9^a (from cyclohexane-C₆H₆), yielding on sapon. crystals, m. 183-4^a (from C₆H₆-AcOH). Similarly was prep'd. the adduct of *di-Me oct-6-ene-1,6-dione-1,3-dicarboxylate* with VI from 0.7 g. VI and 1.0 g. V ($n = 2$; R = Me), forming needles, m. 133.5^a (from C₆H₆), and yielding on sapon. crystals m. 212-14^b (decompn.) (from AcOH).

L. J. Urbánek

Hewson's, ✓.

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Lelobine series. Synthesis and reactions of 2-*arylyl*-6-buteneypyridine. J. V. Hudečkova and I. Ernest (Vysoká škola chem. technol., Prague). Collection Czech. Chem. Commun., 25, 748-55 (1960) (in German).—Treating with agitation a PhLi soln. (prep'd. from 10 g. Li, 100 g. PhBr, and 1 l. Et₂O) with 56 g. 2,6-lutidine (I) in 100 ml. Et₂O, adding dropwise after 1 hr. 29.5 g. freshly distd. EtCHO in 100 ml. Et₂O, stirring the mixt. 1 hr., keeping overnight, decoupg. with 25 g. NH₄Cl in 300 ml. H₂O, extg. the ether layer with dil. aq. HCl, liberating the base from the aq. soln., and extg. with Et₂O gave 11.5 g. starting I and 57 g. 6-(2-hydroxybutyl)-2-picoline (II), b_4 85.5°, b_5 108°, n_D^{20} 1.5108; metho-*p*-toluenesulfonate m. 133-5° (MeOH-Et₂O). If less than 1 equiv. EtCHO was used, 1,1-dilutidylpropene was obtained as by-product, b_4 150-5°; picrate m. 168.5-70° (EtOH-Et₂O). Satg. 41 g. II in 100 ml. Et₂O with dry HCl, dissolving the oily HCl salt in 150 ml. CHCl₃, adding dropwise with agitation 30 g. dihydropyran, keeping the mixt. 2 hrs. at room temp., thoroughly shaking with 11 g. finely ground NaOH and then 11 g. concd. aq. NaOH, extg. with Et₂O, drying the exts. with K₂CO₃, and distg. gave 16.1 g. starting II and 36.9 g. II tetrahydropyranos deriv. (III), b_4 121-3°, n_D^{20} 1.4995. Refluxing 2 hrs. 20 g. II, 80 ml. C₆H₆, and 25.2 g. PCl₅, alkalinizing the cooled mixt. cautiously with 40% aq. NaOH, evapg. the dried C₆H₆ layer *in vacuo*, refluxing the residue 3 hrs. with 22.6 g. KOH and 135 ml. EtOH, steam-distg. the mixt., neutralizing the distillate with 16.5 ml. 5*N* HCl, washing the soln. with Et₂O, filtering with C, evapg. *in vacuo*, and liberating the base as usual gave 14.9 g. unstable 6-buteneyl-2-picoline (IV), b_4 103.5-4.5°, n_D^{20} 1.5370, λ 242 (4.18) and 290 ms (log ϵ 3.86) (cyclohexane); picrate m. 110.5-11.5° (EtOH-Et₂O). Hydrogenation of IV in EtOH on Pd-Al₂O₃ gave 7.76 g. 6-butyl-2-picoline, b_4 86°, n_D^{20} 1.4895, λ 265 ms (log ϵ 3.54) (cyclohexane). Heating in a sealed tube 25 hrs. at 120° 5.63 g. IV, 12.2 g. BzH, and

3.6 g. Ac_2O , treating the mixt. with Et_2O and 15% aq. HCl, and liberating the base from the aq. soln. gave 1.5 g. starting IV and 3.83 g. 2-styryl-6-butenylipyridine (V), b.p. 143.5°, n_D²⁰ 1.0430, obtained similarly from 5 g. II, 9.5 g. Bu_3N , and 6.2 g. Ac_2O (36 hrs. at 130°) in 48% yield. Neutralization of 41 g. V in EtOH with HBr gave 28.8 g. V HBr salt EtOH solvate (VI), m. 122.5-4°, and a mother liquor from which 2 V picrates were obtained, m. 176-7.5° (EtOH), light yellow crystals, and m. 161-3°, deep yellow needles. VI (28.8 g.) in 120 ml. CHCl_3 was dropwise treated with stirring and cooling under exclusion of light with 29.1 g. Br in 170 ml. CHCl_3 and the mixt. slowly heated to boiling. Refluxing 0.5-2 hrs. till the color of Br disappeared and evapn. *in vacuo* gave 30.1 g. V tetra-Br deriv., m. 124-5° (EtOH), whose dehydrobromination with 92 g. KOH in 460 ml. boiling EtOH (2 hrs.) followed by chromatography on neutral Al_2O_3 , elution with petr. ether, CaH_2 , and Et_2O , and treatment of the eluates with picric acid gave 3 picrates: 1.57 g., m. 160.5-7.5° (Me_2CO -EtOH), 1.36 g., m. 134.5-6° (EtOH), and 3.67 g., m. 133.5-5° (EtOH), probably of 2-phenylethythynyl-6-butynylipyridine, 2-phenylethythynyl-6-(2-ethoxybutenyl)ipyridine, and 2-phenylethythynyl-6-(2-oxobutyl)ipyridine, resp. Decompg. VII picrate with aq. HCl gave VII HCl salt monohydrate (VIII), m. 114-15° (EtOH-Et₂O). Heating 15 min. on a steam bath 10 ml. 1:1 aq. H_2SO_4 with VII (liberated from 1.19 g. VIII), alkalinizing the mixt. with aq. NH₃, and extg. with Et_2O gave 2-phenacyl-6-(2-oxobutyl)ipyridine (IX), isolated as 0.11 g. HCl salt, m. 132-3° (EtOH-Et₂O). Refluxing 1 hr. 239.5 g. crude 6-(2-hydroxy-2-phenylethyl)-2-picoline (CA 47, 9871k) in 200 ml. Ac_2O with 48 ml. concd. H_2SO_4 in 280 ml. Ac_2O , filtering off the ppt. from the cooled mixt., and liberating the base with aq. NH₃, as usual gave 137 g. 6-styryl-2-picoline (X), b.p. 127-9°, m. 43-4.5°. Refluxing 90 min. 119.5 g. X dibromide (CA 46, 2058d), 560 ml. EtOH, and 67 g. KOH

and working up gave 29.6 g. 6-phenylethynyl-2-picoline (XI), b.p. 124.5-6.5°, m. 45-7°, whose hydration (CA 47, 9971) yielded 6-phenacyl-2-picoline (XII), m. 75-6.5°; ethylene ketal (XIII) m. 39.5-42° (petr. ether) (prep'd. in a 64% yield by azeotropic removal of H₂O from 18.34 g. XII, 58 g. (CH₃OH), 19 g. *p*-MeC₆H₄SO₃H, and 150 ml. C₆H₆ in 24 hrs., evapg. the mixt. *in vacuo*, dissolving the residue in CHCl₃, and liberating the product with satd. aq. K₂CO₃). Attempts to prep. IX via III or XI or XIII failed.

JH.Pliml

ADLEROVA, E.; ERNEST, I.; HNEVSOVA, V.; JILEK, J.O.; NOVAK, L.; POMYKECEK, J.; RAJSNER, M.; SOVA, J.; VEJDELEK, Z.J.; PROTIVA, M.

Experiments on synthesis in the group of hypotensive alkaloids.
VIII. Syntheses of some tryptamine derivatives, substituted in
positions 5,6, and 7. Coll Cz chem 25 no.3:784-796 Mr '60.
(EEAI 9:12)

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.
(Alkaloids) (Aminoethylindole) (Hypotension)

HNEVSOVA, V.; ERNEST, I.

Addition of metallo-organic compounds to unsaturated pyridine bases.
Coll Cz Chem 25 no.5:1468-1474 My '60.

1. Institut fur organische Chemie, Technische Hochschule fur Chemie,
Prag. 2. Jetzige Adresse: Forschungsinstitut fur Pharmazie und
Biochemie, Prag (for Ernest).

HIEVSOVA SEIDLOVA, V.; PROTIVA, M.

Synthetic ataractics. II. 1-(Aminoalkyl)- and 1-(aminoalkylidene)-
2,3:6,7-dibenzosuberane. Cesk. farm. 10 no.9:459-464 '61.

1. Vyzkumny ustav pro farmacii a biochemii, Praha.
(TRANQUILIZING AGENTS chemistry)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030009-4

PROTIVA, M.; HNEVSOVA-SEIDLOVA, V.; JIRKOVSKY, I.; NOVAK, L.; VEJDELEK, Z. J.

Synthetic ataractics. III. 2'-Substituted 2,3:6,7-dibenzosuberans with
a 3-dimethylaminopropane group in position 1. Cesk. farm. 10 no.10:
506-515 D '61.

1. Vyzkumny ustav pro farmacii a biochemii, Praha.

(TRANQUILIZING AGENTS chem)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030009-4"

HNIDA, P.; RES, M.

Instruments for determining the point of glass softening, according to
Littleton, a new help in the measuring technique. p. 209.

SKLAR A KERAMIK. (Ministerstvo spotrebniho prumyslu) Praha, Czechoslovakia,
Vol. 9, No. 7, July 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11,
November 1959.

Uncl.

HNIDA, Pavel, inz.

Viscosity of the transparent fused silica. Sklar a keramik 12
no.10-291-294 0 '62.

1. Tesla, n.p., Hole sovice.

COUNTRY : Czechoslovakia
CATEGORY : Chemical Technology - Synthetic Polymers.
 Plastics.

ABS. JOUR. : AZKHM., no. 24 1959, no. 88411

AUTHOR : Hnidek, J.

TYPE :

TITLE : Present State of the Production of Plastics in
Czechoslovakia and the Outlook for 1965

ORIG. PUB. : Techn. praca, 1959, 11, No 2, 111-116

ABSTRACT : At the present time Czechoslovak industry manufactures 15 different types of plastics; 40% of the total output are phenolic plastics and 12.5% -- vinyl compounds. Over the period from 1950 to 1957 production of plastics has increased by approximately 4 times and amounts to 2.6 kg per capita. By the end of the third Five Year Period it is planned to increase the production of plastics by more than four-fold per capita. It is contemplated to put into industrial production a number of new polymeric materials such as polyethylene, polypropylene, polyisobutylene, fluorine-plastics, acrylates, modified aniline-formaldehyde resins, copolymers of vinyl chloride, organo-SARO: aluminum compounds, polyvinylbutyral, polyethylene-terephthalate, etc. -- L. Sedov.

Z/009/60/000/01/033/038
E112/E253

AUTHOR: Hnídek, J.

TITLE: Developments and Perspectives of Plastics in Czechoslovakia

PERIODICAL: Chemický průmysl, 1960, Nr 1, pp 41-43

ABSTRACT: The development of the chemistry of plastics in ČSR within the last few years is reviewed and contrasted with the great strides which this branch has taken in other countries. It is pointed out that the range of available products in ČSR is very poor and is based mainly on phenolic resins. It is intended to increase the production of synthetic resins within the third five year plan to between 180 000 to 190 000 tons, which would be five times as much as in 1957. It is intended that the use of plastic materials in ČSR per head of population should be greater than in USA or Western Germany. A great increase is planned for the production of polyvinyl chloride. The manufacture of polystyrene and polyethylene will be taken up. ČSR has got a very good raw material basis for these products. It is planned to produce polyvinyl chloride by suspension polymerisation, the end product to be used for transparent sheets and wrappings.

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Z/009/60/000/01/033/038
E112/E253

Developments and Perspectives of Plastics in Czechoslovakia

The production of foamed materials is planned. A new unit for the production of polystyrene will be erected. A plan for the production of polyethylene will meet the requirement of the home market. A semi-technical unit for the polypropylene production will operate and the product will serve as raw material for synthetic fibres. ČSR will have available new resins from fluorine which have high temperature and chemical resistance and excellent insulating properties. The production of polyester resins will be considerably increased and this will lead to greater availability of glass laminates, for the building and engineering trades. It is planned to increase the production of vinyl acetate as a raw material for emulsion paints and adhesives. It is pointed out that the ambitious programme for the development of the plastics industry can be only achieved by collaboration with the engineering and processing industry.

ASSOCIATION: Ministerstvo chemického průmyslu, Praha (Ministry of Chemical Industry, Prague)

Card 2/2

HNÍK, I.

CIPRA, ANTONIN; HNIK, I.

Diagnosis of infective lymphocytosis. Česk. pediat. 12 no.4:
308-311 Apr 57.

1. Detaske oddeleni nemocnice v Plzne u M.L. pri OUNZ Mar.
Lazne Primar MUDr. Antonin Cipra.
(LYMPHOCYTOSIS, in inf. & child
infect., diag. (Cz))

HNIK, I.; KURES, H.; MACEK, M.

Effect of artificial resistance on the respiration in children. Cesk. pediat. 17 no.5/6:409-411 Je '62.

1. Katedra nemocnicki pediatrie fakulty detskeho lekarstvi University Karlovy v Praze, vedouci prof. MUDr. J. Svejcar, DrSc.

(ASTHMA in inf & child) (RESPIRATION physiol)

HNIK, P.

Motor function disturbances and excitability changes following deafferentiation. Physiol. bohem. 5 no.3:305-315 1956.

1. Czechoslovak Academy of Sciences, Institute of Physiology, Prague.

(MUSCLES, physiology,
eff. of deafferentiation)

CZECHOSLOVAKIA/Human and Animal Physiology (Normal and Pathological). Nervous System. Spinal Cord.

T

Abstr Jour: Ref Zhur-Biol., No 17, 1958, 79955.

Author : Hnik, P.

Inst :

Title : Impairment of the Motor Functions and Change of Stimulation After Deafferentation.

Orig Pub: Ceskosl. fysiol., 1956, 5, No 3, 314-323.

Abstract: In rats (more than 500), the posterior rootlets were cut proximal from the spinal cord ganglia (SG) L₁-S₁ after a laminectomy and dissection of the dura mater. The extirpation of the SG was conducted between L₃-L₆, with a cut of the corresponding posterior rootlets. In cats, the posterior rootlets L₃-S₁ were cut. Function was already restored in

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CZECHOSLOVAKIA/Human and Animal Physiology (Normal and Pathological). Nervous System. Spinal Cord.

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Abs Jour: Ref Zhur-Biol., No 17, 1958, 79955.

the rats and cats in 10-15 minutes after awakening from narcosis. Through 7-10 days after the operation, a tendency to straightening developed which, after reaching a determined point, did not change through almost five months after the operation. This tendency was similarly expressed after the cutting of the posterior rootlets proximal from the SG and after extirpation of the SG. Thus, the mechanism of this phenomena is not of ganglionic but of spinal origin. The crossed straightening reflex appeared only through 7-10 days after the operation, and carried a more tonic character. The difference between the chronaxy of the bent and unbent (normally in cats, their relation equals

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CZECHOSLOVAKIA/Human and Animal Physiology (Normal and Pathological). Nervous System. Spinal Cord.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79955.

1:3), at 10-14 days after deafferentation, was adjusted with the contraction of the chronaxy of straightening out. The reason for the tendency to straighten out after deafferentation is seen by the author in the increased excitability of the motor cells of the anterior horns which innervates straightening-out activity (according to Kenon). In 25-30% of the rats undergoing the operation, an acute pain syndrome appeared (even without the cutting of the posterior rootlets), which is explained by the author as owing to a transient organic edema of the spine. The possibility is proposed of an identical explanation of the pain

Card : 3/4

EXCERPTA MEDICA Sec.2 Vol.10/6 Phy.Biochem. June 57

2604. HNÍK P. Fysiol. Úst. ČSAV, Praha. *Výskyt a průběh svalových atrofí po deafferentaci. Occurrence and course of muscle atrophy following deafferentation CSL. FYSIOL. 1956, 5/4 (414-422) Graphs Muscles of the hind limb were deafferented proximal to the spinal ganglia in rats and cats. The m. extensor digitorum longus did not atrophy in rats during a period of 12 weeks after deafferentation. The soleus, on the other hand, did show atrophy. The experiment was repeated in rats and the same picture was obtained up to 4-5 months after operation. The gastrocnemius behaves in the same way as the soleus and the m. tib. ant. as the ext. dig. long. Atrophy is not due to water shifts but to simple atrophy of muscle fibres. Extirpation of spinal ganglia together with deafferentation did not change the results.

Hahn - Prague

HNIK, P.

Working hypertrophy in deafferentiated muscle following prolonged working effort. Cesk. fysiol. 6 no.1:54-59 '57.

1. Fysiologicky ustav CSAV, Praha.

(MUSCLES, physiology.

hypertrophy caused by prolonged exercise after deafferentiation in animals (Cx))

(EXERCISE, effects,

musc. hypertrophy after deafferentiation in animals (Cx))

HOVÍČKA, J.; HOVÍČKOVÁ, P.

Course of muscle atrophy in young rats. *Cesk. fysiol.*, 6 no. 2:159-165
1957.

1. *Fyziologicky učební OSAV, Praha*
(MUSCLES, innervation,
denervation, causing atrophy in young rats (Cs))

RETMÍK, V.; HENI, P.; VRBOV, G.

Denervation atrophy of various skeletal muscles in rats. Česk. fyziol.
č. no. 2:166-169 1957.

1. Fyziologicky ustav CSAV, Praha.
(MUSCLES, innervation,
denervation, causing atrophy in rats (Cs'))

CZECHOSLOVAKIA / Human and Animal Physiology. Neuro-muscular
Physiology.

T-9

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3729

Author : Hnik, P.

Inst : ~~Biologiya Fiziol. a. fys. Ky. u SAV~~ ČSAV PRAGA.

Title : Changes of Carbohydrate Metabolism in Deafferentated
Rat Muscles

Orig Pub : Ceskosl. Fisiol., 1957, 6, No 2, 170-175

Abstract : The glycogen concentration of soleus and extensor
digitorum longus muscles was determined at various periods
after a one-sided deafferentation. Following a temporary
increase, with the maximum reached approximately on the
7th day after the operation, the glycogen concentration
a month later became the same as that of the intact
muscles of the other side (control). The ability to
synthesize glycogen from introduced glucose was decreased

Card 1/2

CZECHOSLOVAKIA / Human and Animal Physiology. Neuro-muscular
Physiology.

T-9

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3729

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on both sides even a week after the deafferentation.
Resynthesis of glycogen after a simultaneous work load
upon the gastrocnemius muscle of the deafferentated
and of the control side proceeded in the first in the
same way as in the second for a month after the opera-
tion, but in the tibialis anterior muscle for a week,
and even a month after the deafferentation, the resyn-
thesis was somewhat slow as compared with the control
muscle.

Card 2/2

ZELENA, J.; HNIK, P.

Muscle Atrophy in Young rats. Physiol. bohem. 6 no. 2:193-199 1957.

1. Institute of Physiology, Czechoslovak Academy of Sciences, Prague.
(MUSCLE, dis.
exper. atrophy after denervation in rats)
(NERVOUS SYSTEM, physiol.
eff. of denervation on musc. atrophy in rats)

BRANEK, R.; HNIK, P.; VRBOVA, G.

Denervation Atrophy and Reinnervation of Various Skeletal Muscles in
the Rat. Physiol. bohem. 6 no.2:200-204 1957.

1. Institute of Physiology, Czechoslovak Academy of Sciences, Prague.
(MUSCLES, dis.

exper. atrophy after denervation in rats, eff. of reinnerv.)
(NERVOUS SYSTEM, physiol.
eff. of denervation & reinnerv. on misc. atrophy in rats.)

HNIK, P.

Changes in the Carbohydrate Metabolism of Deafferented Muscles in the Rat. Physiol. bohem. 6 no.2:205-211 1957.

1. Institute of Physiology, Czechoslovak Academy of Sciences, Prague.
(CARBOHYDRATES, metab.
in reafferent musc. in rats)
(MUSCLES, metab.
carbohydrates, changes in deafferented musc. in rats)
(NERVOUS SYSTEM, physiol.
eff. of deafferentation on musc. carbohydrate metab.
in rats)

BERANEK, R.; HNIK, P.; VRBOVA, G.

Course of re-innervation of a denervated muscle. Cesk. fysiol. 6 no.3:
348-353 Aug 57.

1. **Physiologicky ustav CSAV, Praha.**
(MUSCLES, innervation,
re-innervation of denervated musc. (Cx))

HNIK, P.; SKORPIL, V.

Certain factors influencing denervation fibrillation in the skeletal muscles in rats. Cesk. fysiol. 7 no.3:224-225 May 58.

1. Fysiologicky ustav CSAV, Praha.

(MUSCLES, physiol.

post-denervation fibrill., eff. of blood supply (Cx))

HNIK, P.; SKORPIL, V.; JANDA, V.

Denervation fibrillation of the striated muscle in rats. Česk. Fysiolog.
7 no.5:468 Sept 58.

1. Fysiolicky ustav Csav, Neurologicka klinika LFPHU Praha.
(MUSCLES, physiol.
denervation fibrill. in rats (Cz))

HITA, J.

Increase i sensory aktivity from ie-efferent muscles. Physiol.
Bohemoslov. 13 nov., 1954-410 - 194.

1. Institute of Physiology, Czechoslovak Academy of Sciences,
Prague.

BERANEK, R.; HNIK, P.

Plasticity of muscle synapses. Cesk. fysiol. 8 no.3:173 Apr 59.

1. Fysiologicky ustav CSAV, Praha. Predneseno na III. fysiologickych
dnech v Brne dne 14. 1. 1959.

(SYNAPSES,

eff. of prolonged inactivation on nerve-musc. synapses (Cz))
(MYONEURALJUNCTION, physiol.
same)

HNIK, Pavel; JANDA, Vladimir

Disorders of longitudinal bone growth in acute anterior poliomyelitis.
Cas. lek. cesk. 98 no. 34, Lek. veda zahr: 177-182 21 Aug 59

1. Fysiologicky ustav CSAV, Praha 6, Neurologicka klinika lekarske
fakulty hygienicke, Praha 12.
(POLIOMYELITIS, compl.)
(BONE DISEASES, etiol.)

ZELENA, J.; HNIK, P.

Muscles without the spindles. Cesk.fysiol. 9 no.3:279 My '60.

1. Fysiologicky ustanov CSAV, Praha
(MUSCLES anat & histol.)

BERANEK, R.; HNIK, P.; VYKLICKY, L.; ZELENA, J.

Facilitation of the monosynaptic reflex due to long-term tenotomy.
Physiol Bohemoslov 10 no.6:543-552 '61.

1. Institute of Physiology, Czechoslovak Academy of Sciences, Prague.
(TENDONS physiol) (REFLEX)

CZECHOSLOVAKIA

P. HNIK and J. ZELENA, Institute of Physiology (Fysiologicky ustav)
ČSVAV (Ceskoslovenska akademie veda - Czechoslovak Academy of Sciences).

"Structure and Function of Muscle Receptors."

Prague, Ceskoslovenska Fisiologie, Vol 12, No 1, Jan 1962; pp 1-25.

Abstract: A very well organized and comprehensive condensed review of studies on muscle receptors, ranging from Leydig's 1856 incidental observations to various electron microscopic and other sophisticated techniques of 1962; phylogeny and development, neuromuscular fascicle, pathological changes, number of receptor organs, appearance of impulse, function of afferent endings, motor innervation and significance, functional divisions. Five diagrams, 3 drawings, 9 electron microphotographs, 3 nerve potential patterns; of just over 300 references, 6 are Czech, 5 Soviet, rest Western.

1/1

HNIK, P.; BERANEK, R.; VYKLICKY, L.; ZALENA, J.

Sensory outflow from chronically tenotomized muscles. Physiol.
bohemoslov. 12 no.1:23-29 '63.

1. Institute of Physiology, Czechoslovak Academy of Sciences, Prague.
(TENDONS) (MUSCLES) (ELECTROPHYSIOLOGY)

ZELENA, J.; HNIK, P.

Motor and receptor units in the soleus muscle after nerve regeneration in very young rats. Physiol. Bohemoslov. 12 no.4: 277-290 '63.

1. Institute of Physiology, Czechoslovak Academy of Sciences, Prague.

(SCIATIC NERVE) (PERIPHERAL NERVES)
(REGENERATION) (RECEPTORS, NEURAL)
(ANIMALS, NEWBORN) (HISTOLOGY)
(NERVE, TISSUE)

HNIK, P.

The effect of deafferentation upon muscle atrophy due to tenotomy
in rats. Physiol. Bohemoslov. 13 no. 3:209-215 '64

Functional characteristics of free nerve endings and atypical
spindles after muscle reinnervation in very young rats.
Ibid.: 216-219

1. Institute of Physiology, Czechoslovak Academy of Sciences,
Prague.

HNIK, Tomas

Japanese and Chinese periodicals on physics and related subjects in the Central Library of the Czechoslovak Academy of Sciences. Cs cas fys 14 no. 1: 79-84 '64.

1. Knihovna Ceskoslovenske akademie ved.

L 18154-66 EWP(t) JD

ACC NR: AP6010377

SOURCE CODE: CZ/0034/65/000/005/0317/0320

AUTHOR: Hnilica, Jindrich (Engineer); Schols, Rudolph (Engineer)

ORG: NHKG, Ostrava-Kuncice

19
B

TITLE: Treating of small lumps in the sintering plant of the NHKG Iron and Steel Works

SOURCE: Hutnické listy, no. 5, 1965, 317-320

TOPIC TAGS: coke, sintering, blast furnace, sulfur

ABSTRACT: The present treatment of lumps of grain size below 1.5 mm is the most economical way of preparing them as feed for the blast furnace. The processing costs are the same as for sinter, that is 41 Kcs per ton. 157 Kg of deficient coke dust is saved; up to 7% of the lumps may be added to the sintering charge without capacity reduction; up to 60% of the S contained in the lumps is removed in sintering; the strength of the sintered product is increased; no pelletizing plant for the treatment of the lumps is required. Orig. art. has: 2 figures, 5 formulas, and 2 tables. [JPRS]

SUB CODE: 13 / SUBM DATE: none / SOV REF: 001

Card 1/1 vmb

~~EBOMER~~, HNILICA, L.

Electrophoresis on paper of calf thymus histones. Labo-
mr Hnilica and Stefan Hupka (Oncol. Research Inst.,
Bratislava). *Ceskod. Onkol.* 3, 181-8 (1956) (in English).
Histone was sepd. into 2 fractions on Whatman paper no. 1
or 4 in McIlvaine buffer pH 4.2-4.8, ionic strength (I) 0.27,
7 v./cm. Sepn. improves with increasing I, whereas raising
of pH causes formation of aggregates. Iodination with
iodine-131 and fractionation of calf-thymus histones. *Ibid.*

2

med

180-9.—Histone was labeled with I^{131} and distribution of ac-
tivity was detd. among fractions obtained by electrophoresis
on paper. Histone binds iodine approx. in the same amt. as
serum proteins; this bond is sufficiently stable. Histone-
 I^{131} is sepd. by electrophoresis into 2 fractions, the major part
of activity being bound by the slow fraction. L.I.U.

HUPKA, Stefan; HNILICA, Lubomir

Iodination with I¹³¹ and fractionation of calf thymus histones.
Cesk. onkol. 3 no.3:186-189 1956.

1. Oncological Res. Inst. in Bratislava, Bratislava, ul. Cs.
armady 17.

(THYMUS, metabolism,

histones, labeling with radioiodine & fractionation)

(HISTONES, determination,

in thymus, labeling with radioiodine & fractionation)

(IODINE, radioactive,

labeling of thymus histones)

SIMKOVIC, Dusan; HNILICA, Lubomir; HOLOUBEK, Viktor

Application of placental extracts in cultivation in vitro, II.
Some properties of the non-dialysable fraction of placental
extract. Česk. onkol. 3 no.4: 292-297 1956.

1. Oncological Research Institute, Bratislava.
(TISSUE CULTURE,

eff. of placental extracts on chick embryo fibroplasts)
(PLACENTA, extracts,
eff. on chick embryo fibroplasts culture)

SIMKOVIC, Dusan; HILICA, Lubomir

Application of placental extracts in cultivation in vitro. III. Influence of the dialysable fraction of placental extract on the growth of chick embryo fibroblast tissue culture. Neoplasma, Bratisl. 4 no. 4:334-339 1957.

1. Oncological Research Institute, Bratislava. Authors' address: Bratislava, ul. Cs. armady 17.

(PLACENTA, extracts

eff. of dialysable fraction of placental extract on growth
of chick embryo fibroblast tissue culture)

(EMBRYO, eff. of drugs on

same dialysable fraction of placental extract on growth of
chick embryo fibroblast tissue culture)

(TISSUE CULTURE, eff. of drugs on
same)

HNILICA, Lubomir; GREGUSOVA, Veronika; THURZO, Viliam

Electrophoresis of a calf thymus histone, labeled with radiodiodine,
in vitro in buffers containing urea. Biologia 15 no.10:776-779
'60. (KEAI 10:5)

1. Vyzkumny ustav onkologicky, Bratislava.
(ELECTROPHORESIS) (THYMUS GLAND) (UREA) (HISTONES)
(RADIOISOTOPES) (IODINE) (BUFFER SUBSTANCES)

HNILICA, L.; GREGUSOVA, V.; THURZO, V.

Effect of urea on the separation of histone from the thymus gland of a
calf by electrophoresis. Coll Cz Chem 25 no.11:2765-2769 N '60.
(EKAJ 10:6)

1. Onkologisches Forschungsinstitut, Bratislava.
(Urea) (Histones) (Thymus gland)
(Electrophoresis)

ACC NR: AP6026279

SOURCE CODE: CZ/0037/65/000/004/0334/0339

AUTHOR: Hnilicka, Miroslav

ORG: Institute of Properties of Metals, CSAV, Brno (Ustav vlastnosti kova CSAV) B

TITLE: Precision determination of the zero position of the counter in an x-ray goniometer

SOURCE: Ceskoslovovsky casopis pro fysiku, no. 4, 1965, 334-339

TOPIC TAGS: goniometer, x ray equipment

ABSTRACT: The paper describes a method for determining the zero position of the counter and the adjustment of the position of the sample in an x-ray goniometer when great demands for precision are made. Orig. art. has: 5 figures, 3 formulas and 1 table. [Based on author's Eng. abst.] [JPRS: 32,945]

SUB CODE: 20 / SUBM DATE: 08Jul64 / SOV REF: 001 / OTH REF: 001

Card 1/1 a/s

2916

1833

IZAKOVIC, V.; IZAKOVICOVA, A.; JNILICA, P.; CICVAREK, Z. Technicka spolu-praca: STURDIKOVA, M.

Determination of the corticotropin activity of the hypophysis with metopyrapone (metopiracet). Bratisl. lek. listy 2 no.1:34-41 '64

1. Katedra vnutorneho lekarstva Slovenskeho ustavu pre doskovanie lekarov v Trencline (veduci: doc. MUDr. D. Mieska) a Centralne biochemicke laboratorium OUNZ v Trencline (veduci: MUDr. Z. Cicvarek).

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030009-4

HNILICA, Zdenek

Pipelines from plastics. Poz stavby 10 no.12:675-677 D
'62.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030009-4"

ANNE G. COVINGTON, M.A. A.I.T.

2
Analytical functional group for borofluor acid. Ljumír Sommer and Marie Hullécková (Masaryk Univ., Brno, Czech.). *Chem. Listy* 50, 1573-9 (1956).—On evapn. aq. solns. of H₂BO with alc. soln. of 32 org. dyes to dryness certain dyes reacted with H₂BO, giving mixts. of colored structurally different forms which were partially characterized by absorption spectra but could not be assigned any definite structure.
L. L. Vrbancic

HN ILICHOVA, MARIE

10
Analytical utility of azochromotropic dyes. I. Zdenek Sommer and Marie Hulickova (Masaryk Univ., Brno, Czech.). *Chem. Listy* 50, 1830-7 (1956). Of a group of azochromotropic dyes (I) under test, ρ -carboxyphenylazochromotropic acid and ρ -sulfonophenylazochromotropic acids are the best reagents for the detection of H_3BO_3 in the medium of H_2SO_4 as shown by the greatest bathochromic flattening of the absorption max. of the colored product. Sensitivity is enhanced by evapg. 1 drop of the a_1 soln. with alc. soln. of the dye followed by acidification. Ca^{2+} is best detd. with ρ -sulfophenylazochromotropic acid at pH 8.5-9 and Mg^{2+} with ρ -nitrophenylazochromotropic acid. Relationships are discussed between the chem. constitution of I and their absorption spectra and indicator properties.
J. Urubuck

HUNLICKOVÁ, EVA

The method of continuous variations and its application
to complexes. Ludvík Sommer and Marie Hunlíková
(Univ. Brno, Czech.) Bull. soc. chim. France 1959, 38-40.
—The spectroscopic application of the method of continuous
variations to complex equil. was studied. The effects of
hydrolysis, interfering complexes between the metal being
studied and buffers, mixed complex formation, and com-
petitive reactions were investigated. In many of these
cases the procedure of Job (C.A. 22, 2120) does not lead
directly to the correct mol. coeffs. The results of a number
of expts. are given and discussed. C. J. Ultee

3

The method of continuous variations and its application
to complexes. Láďa Sommer and Marie Huilíková
(Univ. Brno, Czech.). *Bull. soc. chim. France* 1959, 36-40.
--The spectroscopic application of the method of continuous
variations to complex equil. was studied. The effects of
hydrolysis, interfering complexes between the metal being
studied and buffers, mixed complex formation, and com-
petitive reactions were investigated. In many of these
cases the procedure of Job (*C.A.* 22, 2120) does not lead
directly to the correct mol. coeffs. The results of a number
of expts. are given and discussed. C. J. Ulfig

H N N I C K O W A T M

✓ Thiocyanatoferic complexes in aqueous and nonaqueous
solutions. A. Okáč and M. Hudlický (Masarykova Univ.,
Brno). Collection Czech. Chem. Commun. 25, 68-76
(1960) (in German).—Complexes of Fe^{+++} and SCN^- in
dil. acid solns. have the greatest stability at pH 1.5 and the
ratio of $\text{Fe}^{+++}:\text{SCN}^- = 1:1$. $\text{Fe}(\text{SCN})^{++}$ is predominant
in dil. solns. even in the presence of an excess of HSCN up
to 0.013M HSCN. Its absorption max. is at 455 m μ .
Solns. in 96.4% EtOH, in MeCO, and in dioxane contain
 $\text{Fe}(\text{SCN})^{++}$ and $\text{Fe}(\text{SCN})_2^+$, the latter esp. in acid solns.
contg. excess SCN⁻. The solns. in dioxane show the great-
est stability. Ether extrn. of the thiocyanatoferic com-
plexes shifts the equil. to the nondissoc. $\text{Fe}(\text{SCN})_2$, which
is sol. in Et₂O. In the presence of excess SCN⁻, H[Fe-
(SCN)₄] is formed and extd. into ether. M. Hudlický

4
22(NB)

HNILICKOVA, M.; SOMMER, L.

4-(2-pyridylazo) resorcinol as chelatometric indicator. Coll Cz
Chem 26 no.9:2189-2205 '61.

1. Institut fur analytische Chemie, Purkyne Universitat, Brno.

(Chelatometry) (Resorcinol)

RECORDED

Spectrophotometric determination of iodine in aqueous iodide
solutions. Willard et al., J. Am. Chem. Soc., 1931, 53, 1431-1434.

1. Estimate of analytical error, standard deviation,
etc.

LUTONSKY, Boleslav, MUDr.; Za technicke spoluprace: HNILICOVÉ-BOZMANCOVÉ,

A.

Ammonia in pyrogen-free water. Cas. lek. cesk. 95 no.18:491-493
54.

1. KHES Gottwaldov.

(BLOOD TRANSFUSION, appar. & instruments

rubber bands & cellophane for transfusion bottles as
source of ammonia in pyrogen-free water, determ. (Cz))

(AMMONIA

in pyrogen-free water produced by rubber bands &
cellophane for transfusion bottles during sterilization.
(Cz))

(ANTISEPSIS AND ASEPSIS,

steam sterilization of transfusion bottles, ammonia
produced in pyrogen-free water by rubber bands &
cellophane. (Cz))

S/081/62/000/022/030/088
B158/B101

AUTHORS: Šmid, Josef, Kvapil, Josef, Hnizdil, Jindřich

TITLE: Method of preventing formation of parasitic crystals

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1962, 292, abstract
22I94 (Czechoslovak patent 98594; February 15, 1961)

TEXT: When single crystals are grown by existing methods, particularly in crystallizers operating at a high temperature under thermostatic conditions, parasitic crystals may form on the walls of the apparatus and on the surface of the mother liquor, lowering the product yield and hampering the process. This defect is eliminated by allowing an unsaturated layer to form on the surface of the mother liquor as a result of constant dripping of a solvent which condenses on the surface of a cooler in the upper part of the vapor space of a crystallizer. The tubes of the cooler are best arranged along the walls of the apparatus. [Abstracter's note: Complete translation.] ✓

Card 1/1

HNIZDO, C.

"Presence of elk in Czechoslovakia in 1957 and 1958." p. 8

OCHRANA PRIRODY. Praha, Czechoslovakia, Vol. 14, No. 1, Feb. 1959

Monthly list of East European Accession Index (EEIA), Library of Congress,
Vol. 8, No. 7, July, 1959, Unclassified

HNIZDO, F.

Gas in the household. p. 1048

TECHNICKA PRACA. (Rada vedeckych technickych spoločnosti pri Slovenskej akademii vied) Bratislava, Czechoslovakia, Vol. 11, no. 12, Dec. 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 9, no. 1, Jan, 1960

Uncl.

HNIZDO, F.

Technical development and the ensuring of future supplies of appliances for small consumers, p. 240.

PALIVA. (Ministerstvo paliv a Ceskoslovenska vedecka technicka spolecnost pro využiti paliv pri Ceskoslovenske akademii ved) Praha, Czechoslovakia, Vol. 39, no. 7, July 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 11, November 1959.

uncl.

CHRORAK, Ladislav; POLAK, Jiri; SALAVEC, Miloslav; CERNIK, Frantisek;
ANTALOVSKA, Zora; HNIZDOVA, Dagmar.

Hemophilia in the region of East Bohemia (Coagulation studies).
Sborn. ved. prac. lek. fak. Karlov. Univ. (Hrad. Kral.) 6 no.4:
365-372 '63.

1. I. interni klinika (prednosta: prof. MUDr. F.Cernik); Detska
klinika (prednosta: prof. MUDr. J.Hlecha, DrSc.) a Stomatolo-
gicka klinika (prednosta: prof. MUDr. L.Sazema, CSc.).

*

CHROBAK, Ladislav; HNIZDOVA, Dagmar

Anticoagulative properties of protamine and Polybrene (hexadimethrine bromide). Sborn. ved. prac. lek. fak. Karlov. Univ. 8 no. 5:605-612 '65

1. I. interni klinika (prednosta - prof. MUDr. F. Cernik) v Hradci Kralove.

CHODRAK, Ladislav; HEJNA, Pavel; HEDVAGA, I.

Conservation of platelets in heparin for use in extracorporeal circulation. Sborn. ved. prac. lek. fak. Karlov. Univ. 8 no. 43 477-484 '65.

1. I. Interna klinika (prednostaz prof. MUDr. F. Černík) a
Fakultní transfuzní stanice (prednostaz prim. MUDr. K. Hejna),
Karlov University v Hradci Králové.

NERAD, V.; BARTOS, V.; CHROBAKOVA, H.; za technicke spoluprace HNIZDOVE, D.

A contribution to the problem of hemorrhage in liver diseases. Cesk. gastroent. vyz. 15 no.1:49-53 F '61.

1. I interni klinika lekarske fakulty KU v Hradci Kralove, prednosta prof. MUDr. Jan Rehor.
(LIVER DISEASES complications) (HEMORRHAGE etiology)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030009-4

HNYK, Karel

The third round of the ninth year of Mathematical Olympic games.
Pokroky mat fyz astr 7 no.5:292-294 '62.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030009-4"

L 647.0-65 ENT(1)/EWI(m)/EAC(m)/ENP(t)/ENP(b) IJP(c) RWD/JD

ACCESSION NR: AP5015448

UR/0185/65/010/006/0691/0692

AUTHORS: Vyshnev's'kyy, V.N.; Hnyp, R.F.; Pidziraylo, M.S.

TITLE: Violet photoluminescence of NaI(Tl) single crystals at 77K

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 6, 1965, 691-692

TOPIC TAGS: sodium compound, single crystal, telluride, scintillation detector, luminescence spectrum

ABSTRACT: The violet luminescence band of single crystals of NaI(Tl), excited by filtered mercury lines in the 280--312 nm range, has been investigated at 77K. The 10 x 10 x 5 mm crystals were cut in a dry box and enclosed in quartz cuvettes. These were lowered into liquid nitrogen. The investigations were carried out in a spectrometer set-up with a UM-2 monochromator. In crystals with an activator concentration of about 1×10^{-4} mole Tl/mol NaI, the band is asymmetrical on the long-wavelength side (at smaller concentrations an almost

Card 1/2

L 64741-65

ACCESSION NR: AP5015448

3

symmetrical structureless band is observed at 432 nm). At an activator concentration of about 3.7×10^{-4} mole Tl/mole NaI two maxima of almost equal intensity occur: at 429 and at 439 nm. A clear separation of the two bands occurs at a concentration of 1.3×10^{-3} , when the second maximum is considerably more intense and shifted somewhat to 444 nm. On aging this band increases considerably in intensity. The appearance of structure can be due either to a grouping of activator ions on the defects, leading to a change in the interaction of the lattice with the activator ions, or the radiation may be due to the $^3P_1 \rightarrow ^1S_0$ and $^3P_0 \rightarrow ^1S_0$ transitions and the probability of the latter increases with activator concentration. Orig. art. has: 1 figure.

ASSOCIATION: L'viv's'kiy derzhuniversitet im. Iv. Franka [L'vovskiy gosuniversitet im. I. Franko] (L'vov State University)

SUBMITTED: 01Feb65

ENCL: 00

SUB CODE: 55, OP

NR. REF. Sov: 003

OTHER: 002

Card 2/2 llc

L 22711-66 EWT(m)/EPF(n)-2/T/EWP(t) IJP(c) JD/JG/JXT(HS)
ACC NR: AP6009070

SOURCE CODE: UR/0185/66/011/003/0293/0299

AUTHOR: Bilyy, Ya. M.; Vyshnevs'kyy, V. N.—Vishnevskiy, V. N.; Hnyp, R. H.—⁵³
Gnyp, R. G.; Lakhots'kyy, T. V.—Lakhotskiy, T. V.; Pidziraylo, M. S.—Pidzy-
raylo, N. S.

ORG: L'vov State University im. I. Franko (L'vivs'kyy derzhuniversytet)

TITLE: Low-temperature x-ray luminescence of alkali halide single crystals with
anion impurities '71 '71 10

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 11, no. 3, 1966, 293-299

TOPIC TAGS: luminescence, luminescence center, luminescence spectrum, luminescent material, x-ray effect, impurity level, anion, optic transition

ABSTRACT: The authors have investigated the concentration dependence of x ray luminescence of single crystals of NaCl-I, NaCl-Br, KCl-I, and KCl-Br grown from the melt by the Kiroopoulos method, at a temperature of 100K. The impurity-ion concentration was 0.1, 1.0, 2, 5, 7, 10, 15, or 20% by weight in the melt. The spectrum was measured with a spectrophotometric setup based on a monochromator from the SF-4 spectrophotometer. The samples were several orders of magnitude thicker than the depth of penetration of the exciting x-radiation. The measurements were made first at 100K and then at higher temperatures. The results show that at 100K

Card 1/2

L 22711-66

ACC NR: AP6009070

at small impurity concentrations the x ray luminescence spectra of both crystals exhibit bands in the ultraviolet and in the visible region of the spectrum, due to transitions at the localized levels of the impurity. When the impurity concentration is increased, all x ray luminescent spectra acquire a band whose intensity is approximately proportional to the square of the impurity concentration; this band can apparently be regarded as the emission band of the paired ions of the impurity. The analysis of the spectra gives grounds for assuming that in most emission bands the core of the luminescent center is the impurity ion, which replaces the anion in the main substance. Orig. art. has: 4 figures. [02]

SUB CODE: 20/ SUBM DATE: 28May65/ ORIG REF: 003/ OTH REF: 013
ATD PRESS: 4229

Card 2/2 15K

L 26245-66 EWT(1)/FCC/T/EWP(n) JK

ACC NR: AR6002783

SOURCE CODE: CH/0103/65/003/002/0021/0022

SOURCE: Science abstracts of China. Biological sciences, v. 3, no. 2, 1965, 2/
21-22

B

AUTHOR: Ho, I-hsun (0149/3015/0534)

ORG: none

TITLE: On the morphology and pathogenicity of Microtrema truncatum
Kobayashi, 1915, a liver fluke of the Chinese pig

REF SOURCE: Chi sheng ch'ung hsueh pao (Acta parasitologica sinica), 1964, .
no. 1, 41-47

TOPIC TAGS: microbiology, animal parasite, parasitology

ABSTRACT: By using histological and histochemical methods, a study was
made of the morphology and histology of Microtrema truncatum, the liver fluke
of the pig, as well as the pathological changes in the liver. The cuticular were dis-
tributed mainly on the ventral surface of the worm consist of proteins bound with
tyrosine, tryptophan and histidine. In the parenchyma, suckers and pharynx,

2

Card 1/2

L 26245-66

ACC NR: AR6002783

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large cells with cytoplasmic processes and large nucleoli were found. The cytoplasmic mass of these cells exhibited a positive reaction with PAS and Tetrazonium Test. On the basis of the morphology and histochemical tests, it is suggested that the large cells may be closely related to myoblasts. The lesions produced by this fluke on its host consist mainly of dilatation of the bile ducts, connective tissue hyperplasia leading to the thickening of the walls of bile ducts and extensive proliferation of the biliary epithelium.

SUB CODE: 06 / SUBM DATE: none

Card 2/2 C C

HOARAN, I.

"We Shall Increase All Aeronautic Activity." P. 3. (AVIATIA SPORTIVA, Vol. 5,
No. 1, Jan. 1954, Bucuresti, Rumania.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,
No. 1, Jan. 1955 Uncl.

BRAUNER, R., prof.; BORU, Eugenia, conf.; MINCU, Iulian, dr.; NEGROISCU, Victoria, chimista; HOANCA, O., dr.; BUZELARI, Aurica, laboranta.

Enzymological investigations in chronic hepatitis and liver cirrhosis.
Med. intern., Bucur 12 nr.11:1629-1644 N '60.

1. Lucrare efectuata in Clinica medicala a Spitalului "Brincovenesc"
si Catedra de biochimie I.M.F., Bucuresti.
(HEPATITIS blood) (LIVER CIRRHOSIS blood)
(ENZYMES blood)

GALEA, Gh., conf.; NITU, Victoria, dr.; HOANCA, C., dr.; GALEA, I., dr.;
POPESCU, Ana, chemist; ENACHE, M., dr.

Contribution to the study of hepatic cytonecrosis. Med. intern. 14
no.4:445-454 Ap '62.

1. Lucrare efectuata in Clinica medicala a Spitalului "Brincovenesc"
(prof. R. Brauner).

(LIVER CIRRHOSIS) (HEPATITIS) (NECROSIS)
(BLOOD ALKALINE PHOSPHATASE) (DEHYDROGENASES) (ISOMERASES)
(ALDOLASE) (AMINOTRANSFERASES) (ENZYME TESTS)
(IRON METABOLISM) (AMINOACIDURA) (URIC ACID)

GALEA, Gh., conf.; HOANCA, O., dr.; LAZAR, L., dr.; DEMAYO, A., dr.

Osler-Rendu disease and hepatic cirrhosis. Med. intern. 15
no.8:1009-1016 Ag '63.

1. Lucrare efectuata in Clinica medicala a Spitalului
"Brincovenesc", I.M.F., Bucuresti (director: prof. R. Brauner).
(ANGIOMATOSIS) (LIVER CIRRHOSIS)

BRAUNER,R., prof.; MITU, Victoria, dr.; HOANCA,O. dr.; MIINEA, I.dr.

Serum glycoproteins in atherosclerosis. Med. intern. 16 no.1:
39-46 Ja'64

1. Lucrare efectuata in clinica medicala a Spitalului
"Brincovenesc" (director: prof. R.Brauner).

*

MOANTA, V.; ZAMANESCU, I.

Method of computing the exhaust system with blast pipe in narrow gauge locomotives. p.192.

REVISTA CAILOR R.RATU. (Calle Ferata Romane) Bucuresti, Romania Vol. 7, no. 4, Apr. 1959.

Monthly list of Eastern European Accession Index (EEAI) IS vol. 8, No. 11 November 1959
Incl.

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030009-4

CRISTESCU, E.; TITE, G.; OLARU, I.; SZILAGYI, D.; BRAGA, V.; HOARA, M.,
KAZAREL, S.

Our experience with the pneumatic extractor applied in 150 cases.
Rumanian M Rev. no.2:76-80 Ap-Je '60.
(DELIVERY)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030009-4"

HOARK VACLAV

CZECH

S-Alkylothiuronium hydrogen carboxates. I. Modifi-
cation preparation of mercaptans from S-alkylthiuronium
salts. Václav Hoář. Collection Czechoslov. Chem. Com-
muni. 19, 1954, 41(103) (in Russian). II. Identification
of organic acids. Ibid. 13:12-3.—See C.A. 47, 3059.
B. J. C.

11
Hoář

DIMITRIU, R., dr.; CINCA, I., conf.; COLEA, A., dr.; CHACĂ, P., dr.;
HOBAI, Ioana, dr.

Zoster encephalitis. Clinical study. Neurologia (Bucur) 10 no.2
127-131 Mr-Ap'65.

1. Lucrare efectuata in Clinica de neurologie, Spitalul "Clementines"
Bucuresti.

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030009-4

HOBLER, Tadeusz; BYLINA, Andrzej; WOJciech, Stefan

Hydraulics of the pipe tray. Chemia stosow B 1 no.3:331-345 1964.

I. Institute of Chemical Engineering and Apparatus Design, Gliwice,
of the Polish Academy of Sciences. Submitted September 15, 1963.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030009-4"

HOEGLER, Tadeusz; BŁĘK, Jerzy

Theoretical Murphree efficiency analysis of bubble-cap plate rectification columns. Chemia stosow B 1 no.4:407-441 '64.

1. Institute of Chemical Engineering and Apparatus Design,
of the Polish Academy of Sciences, Gliwice. Submitted April
13, 1964.

In: Soviet Union, 1950.

"Meet American and/or Free Africa (Nigerians). In Eng. ch. 1, p. 1.
(Sbornik. Acta Internationale. Vol. 26, No. 24, 1950-51, p. 10.)

Completely List of Black African Accusations, Interpol Federation, March 1951, Genl.

Kolomanov, ...

KOLOMANOV, ...; PALEK, ...

"Results Of The Scientific Zoological Expedition Of The National
Museum In Prague To Turkey. Pt. 1. Introduction. In English."
p. 1. (Sbornik. Acta Entomologica. Vol. 26, No. 346, 1948-50,
Praha.)

Vol. 1, 1948-50.
SC: Entomology List of East European Acquisitions, Library of Congress, March 1951, U.S.A.

Prague, 1954.

"Results of The Scientific Biological Expedition of The "J. C. H. L. Lucanus" In Prague To Turkey. Pt. 2. Herpetofauna-Heteroptera. I. The Aquatic and Semiaquatic Heteroptera of Turkey. In English." p. 1. (Sbornik. Acta Entomologica. Vol. 16, No. 3., 1954 - 55., Praha.)

... , No. 1.

cc: Monthly List of Most Dangerous Agents - Ministry of Medicine, U.S.S.R., Moscow, Russia.

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030009-4

Revised 10/10/86

"Some long-term-interruption collected in Northern and Southern Iraq... and also..."
p. 1. (Skopje, data unknown, Vol. 1, No. 1, 1967, pp. 1)

See: Archival Material from the Soviet Union, USSR, and the former Soviet Republics, 1917-1991.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030009-4"

Brace, C.; Hoberlandt, L.

"Check List And Distributional Records Of Leptocephali (Reptilia). In English."
p. 1. (Sbornik Acta Entomologica. Vol. 33, No. 33, 1947-50, Irkutsk.)

Reinhardt, ...

Drake, C.; Roberlandt, L.

"Three New Species Of Salminae (Hemiptera). In
English." p. 1. (Sbornik. Acta Entomologica.
Vol. 10, No. 374, 1946-50, Praha.)

"A New Species of Hymenaea (Mimosaceae) from The Comoros. In English." J. L. (Soviet) Natura Comoren. Vol. 17, No. 175, 1977-54, Praha.)

3. : Geoffrey C. Bentham and George Arnott Walker Wight, 1827, 1830.

1. Author or Title, if any.

Brullé, G.; Holophaea.

"A Catalog Of The Genera And Species Of Saldidae (Hemiptera) In Europe."
p. 1. (Sbornik. Acta Entomologica. Vol. 10, No. 1, 1900, p. 1-90.)

2. Date of original document: 1900.
3. Date of this copy: 1900.

HOBORLANDT, L.

A new wingless genus of the family Aeadidae from Southern India (Heteroptera).
In German. p. 281.

Országos Magyar Természettudományi Múzeum. MAGYAR NEMZETI MUSEUM TERMÉSZET-TUDOMÁNYI MÚZEUM ÉV KÖNYVE. ANNALES HISTORICO-NATURALES MUSEI NATIONALIS HUNGARICI. Budapest, Hungary. vol. 9, 1958.

HOBORLANDT,

Monthly List of Best European Journals (EEAI) LC, Vol. 9, no. 2, Feb. 1960

HOBINCU, A.

Methods of checking the inner lacquering of tooth paste tubes. p. 444

STANDARDIZAREA. (Oficialul di Stat peniry Standarde di Comititul
Electrotehnic Romin) Bucuresti, Rumana. Vol. II, no. 9, Sept. 1959

Monthly list of East European Accessions (EAAI) LC Vol. 9, no. 2
Feb. 1960

Uncl.

RAUTU,R., chim; HOBINCU,A., ing.; SPORN,A., dr.; DUMITRESCU,M., chim.; PERLEA,A., ing.

Determining the valuation and control criteria of high and low pressure polyethylene and polystyrene. Ind alim anim 11 no.1:
16 - 19 Ja'63.

RAUTU, R., chim.; HOBINCU, A., ing.; SPORN, A., dr.; DUMITRESCU, M., chim.;
PETROVICI, C., ing.; PERLEA, M., ing.

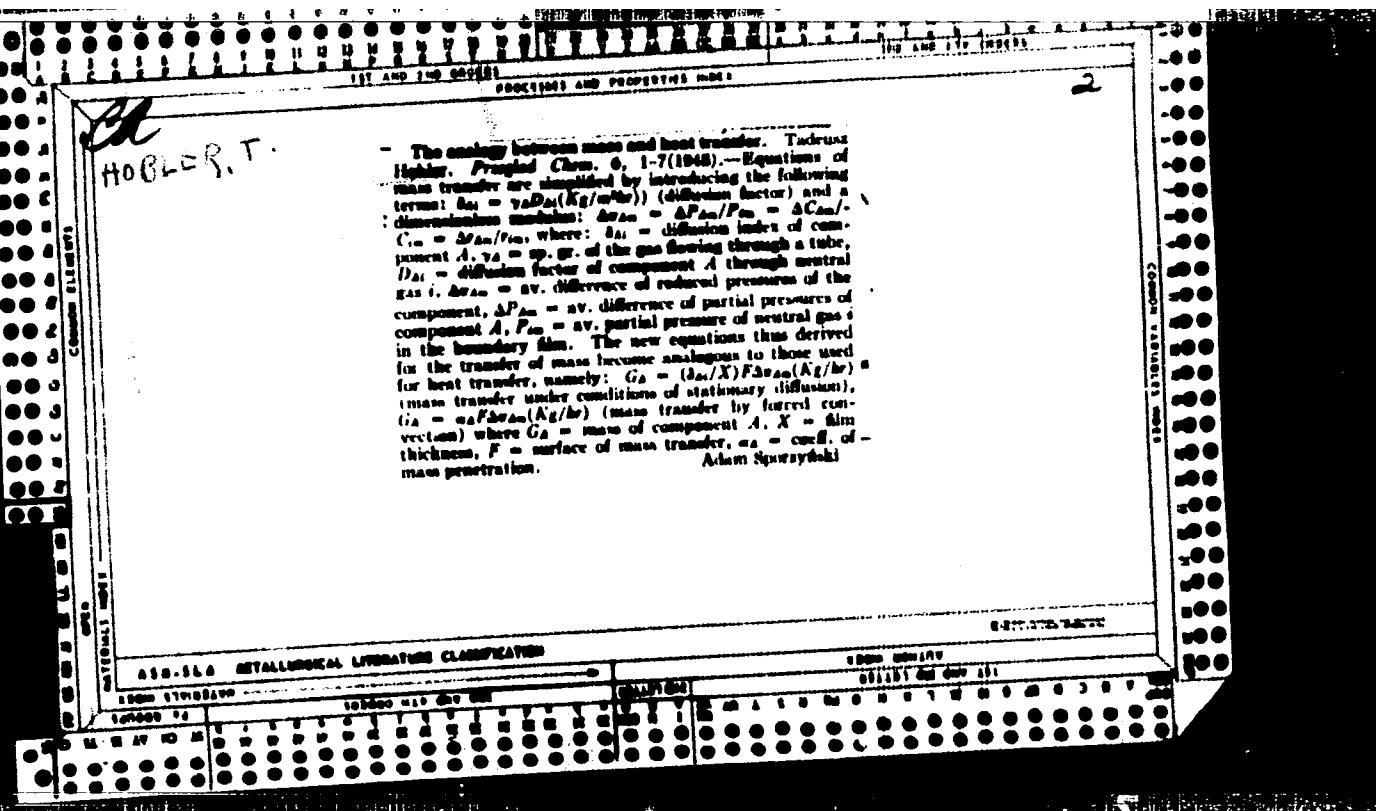
Determining the valuation and control criteria for hard and
plasticized polyvinyl chloride. Ind alim anim 11 no. 2:50-53,
57 F'63.

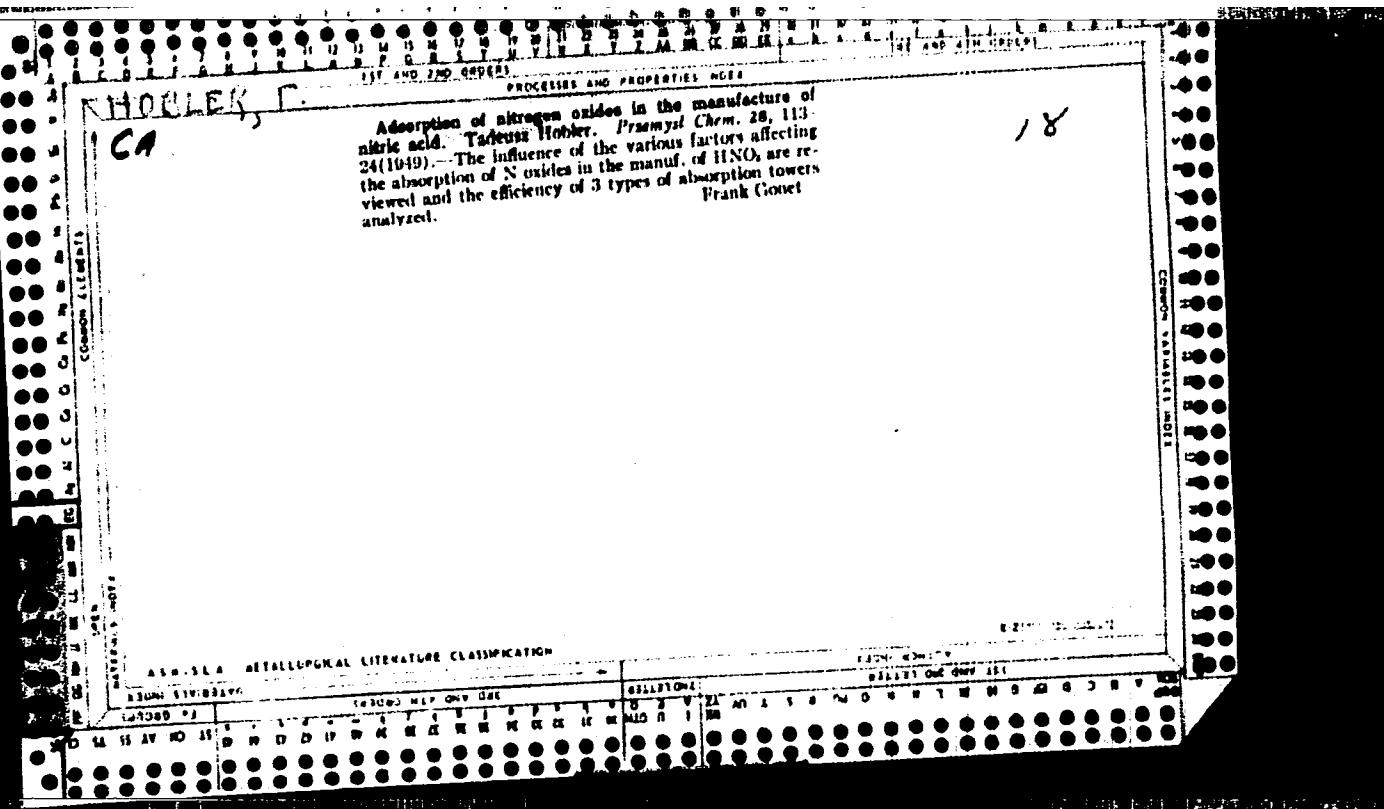
KOBIER, M.

KOBIER, M. New methods of lighting passenger cars. p. 36

Vol. 8, no. 3, Mar. 1956
PRZEGŁAD KOLEJOWY ELEKTROTECHNICZNY
TECHNICZNY
Warszawa, Poland

So: East European accession Vol. 6, no. 2, 1957





HOBLER, T.

✓ Calculation of the rate of mass transfer. R. W. Ryan
Przemysl. Chem., 31(8), 325-34 (1942). - Math. An equation
is derived for calcg. the rate of mass transfer between
phases in the presence of inert components. P. Gmelin